

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-8 (canceled).

9. (New) A decentralized electrical braking system, comprising:

at least four sensors for sensing an actuation of a brake actuating device;

at least four wheel-braking modules, each wheel-braking module being assigned to a corresponding vehicle wheel and acquiring sensor data and controlling braking of the corresponding vehicle wheel;

at least one first communication device connecting all four wheel-braking modules to one another for exchange of data;

an electrical connecting device for connecting each sensor to at least one wheel-braking module; and

at least one further communication device for facilitating at least one of receiving and exchanging data between at least two wheel-braking modules associated with opposite lateral sides of the vehicle.

10. (New) The braking system as recited in Claim 9, wherein the at least one further communication device is identical to the first communication device, and each sensor is connected to two wheel-braking modules associated with opposite lateral sides of the vehicle, on the same axle.

11. (New) The braking system as recited in Claim 9, wherein, for exchanging data, a front wheel-braking module of a first

lateral side of the vehicle is connected to a rear wheel-braking module of a second lateral side of the vehicle by a second communication device, and a front wheel-braking module of the second lateral side of the vehicle is connected to a rear wheel-braking module of the first lateral side of the vehicle by a third communication device.

12. (New) The braking system as recited in Claim 10, wherein two sensors are connected to each wheel-braking module.

13. (New) The braking system as recited in Claim 11, wherein the first, second and third communication devices are serial bus systems.

14. (New) The braking system as recited in Claim 11, wherein sensor data of the sensors are exchanged via the first, second and third communication devices.

15. (New) The braking system as recited in Claim 11, wherein each wheel-braking module has a device for determining an actuation strength of the brake actuating device.

16. (New) The braking system as recited in Claim 11, wherein the braking system is a passenger vehicle braking system having four brakes for four wheels.